

**AMENDMENTS TO THE CLAIMS**

Listing of Claims:

- 1-3. (Cancelled)
4. (Currently Amended) An isolated HBV core-like particle comprising an isolated HBV precore protein, wherein the ~~N-terminus of the precore protein is at position -28 and the C-terminus is at a position from 150 to 154, as set forth in HBV precore protein comprises the sequence of SEQ ID NO: 1, and further does not comprising~~ comprise HBV DNA therein.
5. (Cancelled)
6. (Previously Presented) An HBV diagnostic reagent or a diagnostic kit comprising the isolated HBV core-like particle according to claim 4.
7. (Withdrawn) A method of determining the HBV precore protein according to claim 1.
8. (Withdrawn) The method according to claim 7 comprising the step of exposing the HBV precore protein and the step of binding to a probe that recognizes the HBV precore protein.
9. (Withdrawn) The method according to claim 7 wherein said step of exposing the HBV precore protein is treatment with, or addition of, a surfactant.
10. (Withdrawn) The method according to claim 7 wherein said surfactant is any of an anionic surfactant, an anionic surfactant and an ampholytic surfactant, or an anionic surfactant, an ampholytic surfactant and a nonionic surfactant.
11. (Withdrawn) The method according to claim 7 wherein said probe that binds to the HBV precore protein is a probe that binds to the positions -28 to -11 of the amino acid

sequence, or a probe that specifically binds to the HBV precore protein according to any one of claims 1 to 3 and that does not bind to HBe antigen or HBc antigen.

12. (Withdrawn) The method according to claim 7 wherein said probe that binds to the HBV precore protein is an antibody.

13. (Withdrawn) The method according to claim 7 wherein said antibody is a combination of two or more of antibodies that recognize positions 1 to 19, an antibody that recognizes positions 21 to 40, an antibody that recognizes positions 31 to 49, an antibody that recognizes positions 130 to 140, and an antibody that recognizes the structural region of positions 1 to 81 of the amino acid sequence.

14. (Withdrawn) A method of determining particulate HBV precore/core protein which comprises (immuno) precipitating with a probe such as anti-HBs antibody that binds to HBs antigen and determining the HBV precore/core protein in the precipitate.

15. (Withdrawn) A method of determining the value of the particulate HBV precore/core protein in a sample wherein it is calculated by subtracting the measured value of the HBe antigen when the value of the HBe antigen is included in the measured value of the HBV precore protein determined by a method described in claim 7.

16. (Withdrawn) A method of determining the value of the particulate HBV precore protein in a sample wherein it is calculated by subtracting the measured value of the HBe antigen from the measured value of the HBV precore/core protein determined by a method described in claim 7.

17. (Withdrawn) A method of using the determination of the HBV precore protein determined by a method described in claim 7 as a pathological marker for HBV infection or type B hepatitis.

18. (Withdrawn) A diagnostic reagent comprising an assay kit comprising an anionic surfactant and an antibody that recognizes the amino acids at positions -28 to 150 of the HBV precore protein, and a kit for determining HBe antigen.

19. (Withdrawn) An assay kit and a diagnostic reagent comprising an anionic surfactant, an antibody that recognizes the amino acids at positions -28 to 150 of the HBV precore/core protein, and an antibody that separates the particulate HBV precore/core protein and the HBe antigen.

20. (Withdrawn) A method of detecting an antibody against the HBV precore protein according to claim 1.

21. (Previously Presented) An assay kit and a diagnostic reagent for determining a an antibody against the isolated HBV core-like particle having an antigenicity different from HBc antigen and HBe antigen, comprising the isolated HBV core-like particle according to claim 4.